

In re Appln. of PARK et al.
Application No. 09/839,594

Replace the paragraph beginning at page 5, line 23 with:

C2 The nano magnetic particles 200 have submicrometer or nano scale, so that they do not exhibit magnetism having a crystalline anisotropy but exhibit magnetism having a shape anisotropy.

Replace the paragraph beginning at page 7, line 14 with:

C3 If the introduced nano magnetic particles 200 are larger in scale than several nanometers, and do not exhibit superparamagnetism, remnant induction may be caused due to the displacement electric field. Thus, a reduction in the dielectric constant due to an electric field disturbance does not occur.

Replace the paragraph beginning at page 8, line 11 with:

C4 A metal salt synthesized in step 1, that is, the anion surfactant, e.g., $\text{Fe}(\text{DS})_2$, $\text{Ni}(\text{DS})_2$, or $\text{Zn}(\text{DS})_2$, and a cation surfactant, e.g., dodecyltrimethylammonium chloride (DTAC) were mixed in the ratio shown in Table 2, 500 ml of 0.7M aqueous solution of methylamine was added thereto and then agitated violently in the presence of air for 6 hours, thereby preparing a nano magnetic material. If an anion surfactant and a cation surfactant are mixed in a predetermined ratio, the micelles are converted from spherical micelles to ellipsoidal, cylindrical, needle-like, or lamellate micelles. In such a manner ellipsoidal, disk-like, or cylindrical, i.e., non-spherical, nano magnetic particles were produced.

Replace the paragraph beginning at page 12, line 5 with:

C5 The thickness of the acquired film was $40\mu\text{m}$, and mechanical properties thereof were evaluated with ASTM D882 apparatus manufactured by Instron. The tensile strength of the film was evaluated by measurement of elongation percentage at a break point, stress at the break point, and Young's modulus. The thermal properties of the film were evaluated by measurement of glass transition temperature and thermal degradation temperature. The measurement results are shown in Table 6.